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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/713,087	11/17/2003		Kia Silverbrook	ZG177US 9627	
24011	7590	07/22/2004		EXAM	IINER
SILVERBR 393 DARLIN		ESEARCH PTY L' ET	HUFFMAN, JULIAN D		
BALMAIN, 2041				ART UNIT	PAPER NUMBER
AUSTRALL	Ą			2853	

DATE MAILED: 07/22/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/713,087	SILVERBROOK, KIA					
Office Action Summary	Examiner	Art Unit					
	Julian D. Huffman	2853					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on	 ·						
2a) ☐ This action is FINAL . 2b) ☑ This	s action is non-final.						
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
 5) □ Claim(s) is/are allowed. 6) □ Claim(s) 2 and 5-9 is/are rejected. 7) ☒ Claim(s) 1.3 and 4 is/are objected to. 	4a) Of the above claim(s) is/are withdrawn from consideration.) ☐ Claim(s) is/are allowed.) ☐ Claim(s) 2 and 5-9 is/are rejected.) ☐ Claim(s) 1,3 and 4 is/are objected to.						
Application Papers							
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 17 November 2003 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 							
Priority under 35 U.S.C. § 119							
12) △ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) △ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. △ Certified copies of the priority documents have been received in Application No. 10/129,434. 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 11/17/03. 	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:						

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DETAILED ACTION

Claim Objections

1. Claims 1-9 are objected to because of the following informalities:

In claim 1, a printhead is not recited. Thus there is no antecedent basis for the limitation that the coefficient of thermal expansion of the beam is substantially equal to that of the printheads.

It is suggested that claim 1 be amended to recite "A printing apparatus comprising:

a support structure and a plurality of printheads supported by the support structure;

the support structure comprising an elongated beam...".

Additionally, the preamble of the dependent claims should be amended to recite "the printing apparatus of claim", wherein".

Claim Rejections - 35 USC § 112

2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

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3. Claims 2 and 5-8 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Applicant's original specification states that "The length of each segment is selected such that the printhead spacing, or printhead pitch A, has an effective coefficient of thermal expansion substantially equal to that of silicon".

Applicant's original specification does not support the limitation that "the combined lengths of two adjacent segments define a pitch and the coefficient of thermal expansion across the pitch is substantially equal to that of a printhead carried by the pitch".

The original specification also does not support the beam pitch and printhead pitch being substantially the same.

The new matter should be cancelled from the claims.

Appropriate correction is required.

4. Claims 1, 3 and 4 would be allowed if rewritten to overcome the objection outlined above.

The prior art of record does not disclose the support beam formed from two different materials alternating along the length of the beam with a CTE substantially equal to that of the printhead.

Conclusion

- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. U.S. 6,325,488 B1 to Beerling et al. and 6,350,013 B1 to Scheffelin et al.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Julian D. Huffman whose telephone number is (571)272-2147. The examiner can generally be reached Monday through Friday from 9:00 a.m. to 5:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Meier, can be reached at (571) 272-2149. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

JH

July 19, 2004

P

Thinh Nguyen
Primary Examiner
Primary Center 2800
Tuchnology